

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002AR
Revision No:
1

This is to certify:

That

Wieland Austria Ges.m.b.H
Fabrikstraße 4, 3300 Amstetten,
Austria

is an approved manufacturer of
Wrought Copper and Copper Alloys

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Copper and copper alloy tubes
Alloy type(s)	Copper-Nickel 90-10 Copper-Nickel 70-30
Manufacturing method	Seamless
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-01-07**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Augsburg**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-004699-3**
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Particulars of the approval

Copper and copper alloy tubes

Alloy type ²⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]
Copper-Nickel 90-10	HFS / CFS	159	8
Copper-Nickel 70-30	HFS / CFS	159	8

Remarks:

- ¹⁾ HFS: hot finished seamless
CFS: cold finished seamless
- ²⁾ Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules